Calix

The Calix C7 Ultra-Broadband Loop Carrier (UBLC) is a revolutionary network platform that allows service providers to deliver a wide range of voice, data, and video services to business and residential subscribers over optical and metallic access media. With a 200 Gbps backplane and a pure packet core, the Calix C7 delivers the capacity service providers need today…and tomorrow. Environmentally hardened and coupled with a family of patented ultra-efficient outdoor cabinets, the Calix C7 can be deployed anywhere service providers operate. In addition to supporting the complete spectrum of traditional voice and data services, the advanced IP intelligence of the Calix C7 allows it to support emerging packet-based services as well. And the ability to drive any combination of 480 fiber or copper subscriber interfaces from a compact form factor makes the Calix C7 the ideal solution for forward-thinking service providers.

C7

ULTRA-BROADBAND LOOP CARRIER

THE CALIX C7 ULTRA-BROADBAND LOOP CARRIER

SERVICE DELIVERY MADE SIMPLE

The Calix C7 UBLC is engineered to satisfy virtually all service delivery requirements for wireline carrier access network infrastructure. In addition to traditional circuit-based voice and business hi-cap services, the pure packet core and media flexibility allow the Calix C7 to support a wide range of enhanced packet-
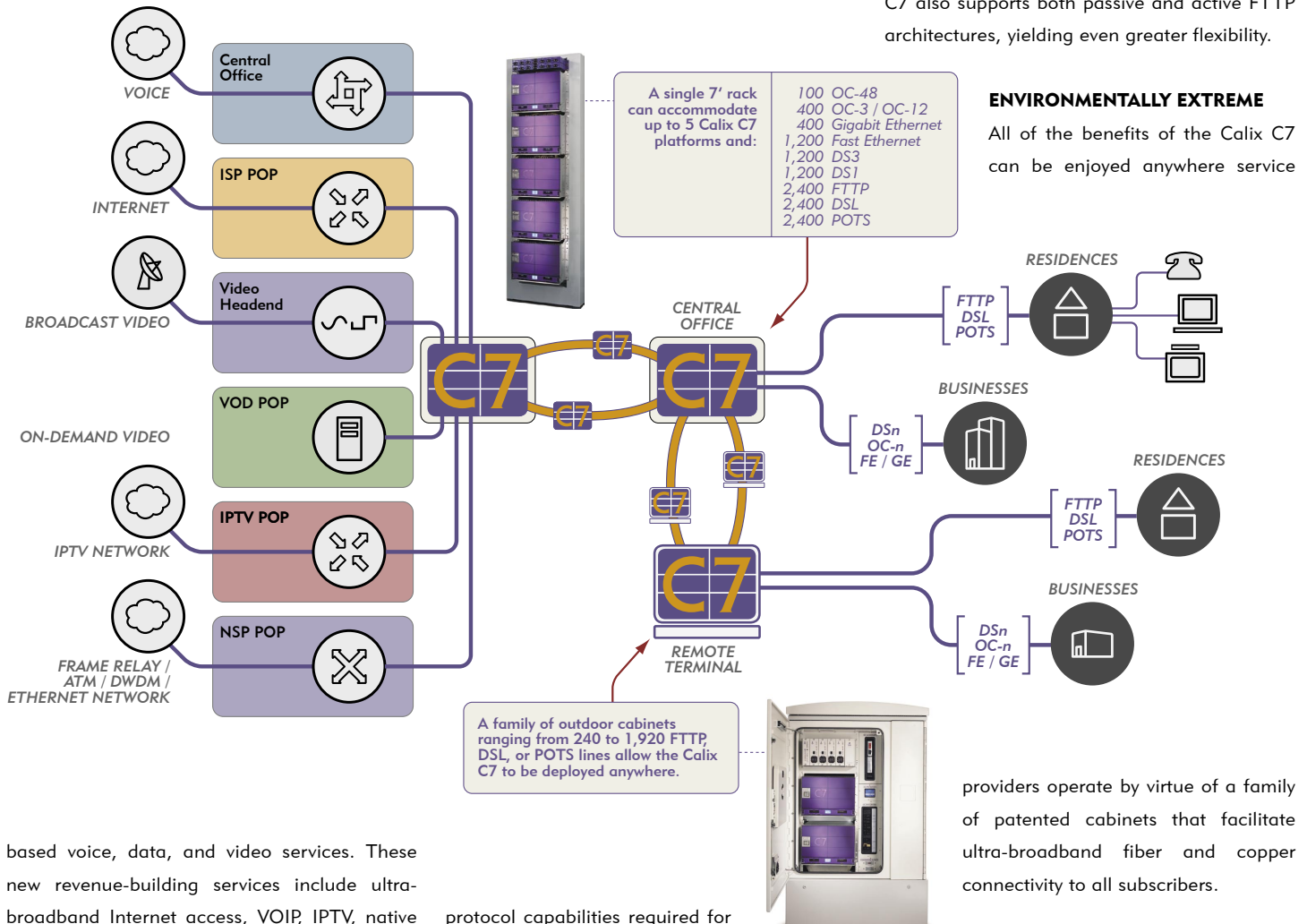
each of the platform's 20 slots, the Calix C7 has sufficient capacity to simultaneously deliver over 400 Mbps of symmetric connectivity to each of 480 fiber- or copper-connected subscribers.

PACKET INTELLIGENCE

Not only is the Calix C7 based on a high-capacity packet switching fabric, it also incorporates a range of Ethernet and IP

MEDIA FLEXIBILITY

The Calix C7 platform is specifically designed to extend the useul life of existing copper assets while provide a graceful migration to fiber access. Toward that end, each universal service slot in the Calix C7 supports 24 copper or fiber terminations, allowing service providers to upgrade subscribers from copper to fiber when and where the service mix requires it. The Calix C7 also supports both passive and active FTTP architectures, yielding even greater flexibility.

ENVIRONMENTALLY EXTREME

All of the benefits of the Calix C7 can be enjoyed anywhere service

VOICE

Central Office

ISP POP

INTERNET

Video Headend

BROADCAST VIDEO

VOD POP

ON-DEMAND VIDEO

IPTV POP

IPTV NETWORK

NSP POP

FRAME RELAY / ATM / DWDM / ETHERNET NETWORK

A single 7' rack can accommodate up to 5 Calix C7 platforms and:

100	OC-48
400	OC-3 / OC-12
400	Gigabit Ethernet
1,200	Fast Ethernet
1,200	DS3
1,200	DS1
2,400	FTTP
2,400	DSL
2,400	POTS

CENTRAL OFFICE

C7 C7 C7

C7

REMOTE TERMINAL

RESIDENCES

FTTP DSL POTS

BUSINESSES

DSn OC-n FE / GE

RESIDENCES

FTTP DSL POTS

BUSINESSES

DSn OC-n FE / GE

A family of outdoor cabinets ranging from 240 to 1,920 FTTP, DSL, or POTS lines allow the Calix C7 to be deployed anywhere.

based voice, data, and video services. These new revenue-building services include ultra-broadband Internet access, VOIP, IPTV, native Ethernet, VPNs, and much more.

CAPACITY FOR THE FUTURE

The Calix C7 is built to accommodate a future in which all subscribers are connected at rates exceeding 100 Mbps, fully symmetric and with no oversubscription. In fact, with a 200 Gbps backplane delivering 10 Gbps of bandwidth to

protocol capabilities required for advanced packet-based services. Standards-based IP video is supported using IGMP; transparent LAN services are supported using 802.1Q VLANs; VOIP is supported using H.248 signaling. In short, the Calix C7 contains all of the functionality service provides require for the delivery of next-generation packet-based services.

providers operate by virtue of a family of patented cabinets that facilitate ultra-broadband fiber and copper connectivity to all subscribers.

SIMPLIFIED SERVICE PROVISIONING

The Calix iMS (Integrated Management Software) simplifies and streamlines what were previously complex, time-consuming, and error-prone manual processes. With order cycle time becoming a key competitive differentiator for service providers, Calix is a critical partner.